

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

7. (Currently Amended) A nonvolatile memory system comprising:

a plurality N of nonvolatile storages within which at least one cluster of data is ~~are~~
recorded, with each cluster constructed by a plurality K of sectors;

address designating means for designating an address of the cluster in which data is
recorded;

DI recording means for recording data into a storage location at the address designated by
said address designated means;

wherein,

said plurality of storages are divided into a plurality of segments;

each said segment is distributed and arranged into said plurality of storages; and

each said segment is composed of a plurality of clusters, and a first N clusters of a given
segment each having first to Kth entire sectors successively stored in first to Kth memory
locations, respectively, of a corresponding one of said N storages, whereby ~~the sectors of said N~~
clusters are continuously arranged across said N storages.

8. (Previously Presented) The nonvolatile memory system according to claim 7, wherein
an access is performed with reference to a logical cluster address/physical cluster address
conversion table that is formed for each segment.

9. (Previously Presented) The nonvolatile memory system according to claim 7, wherein second sector data is transferred to a second storage and first sector data is written into a first storage immediately after the first sector data is transferred to the first storage.

10. (Previously Presented) The nonvolatile memory system according to claim 7, wherein a segment address, a storage address, and a sector address are created for recording data into plural of said nonvolatile storages.

11. (Currently Amended) A data processing system comprising:
a plurality N of nonvolatile storages within which at least one cluster of data is recorded,
with each cluster constructed by a plurality K of sectors; and
a data processing apparatus having:
address designating means for designating an address of the cluster in which data is recorded;
recording means for recording data into a storage location at the address designated by said address designated means;
wherein,
said plurality of storages are divided into a plurality of segments;
each said segment is distributed and arranged into said plurality of storages; and
each said segment is composed of a plurality of clusters, and a first N clusters of a given segment each having first to Kth entire sectors successively stored in first to Kth memory locations, respectively, of a corresponding one of said N storages, whereby ~~the sectors of said N~~ clusters are continuously arranged across said N storages.

12. (Previously Presented) The data processing system according to claim 11, wherein an access is performed with reference to a logical cluster address/physical cluster address conversion table that is formed for each segment.

13. (Previously Presented) The data processing system according to claim 11, wherein second sector data is transferred to a second storage and first sector data is written into a first storage immediately after the first sector data is transferred to the first storage.

14. (Previously Presented) The data processing system according to claim 11, wherein a segment address, a storage address, and a sector address are created for recording data into plural of said nonvolatile storages.

15. (Currently Amended) A nonvolatile memory device comprising:
a plurality N of nonvolatile storages within which at least one cluster of data is recorded, with each cluster constructed by a plurality K of sectors;
wherein,
said plurality of storages are divided into a plurality of segments;
each said segment is distributed and arranged into said plurality of storages; and
each said segment is composed of a plurality of clusters, and a first N clusters of a given segment each having first to Kth entire sectors successively stored in first to Kth memory locations, respectively, of a corresponding one of said N storages, whereby ~~the sectors of said N~~ clusters are continuously arranged across said N storages.

16. (Previously Presented) The memory device according to claim 15, wherein an access is performed with reference to a logical cluster address/physical cluster address conversion table that is formed for each segment.

17. (Previously Presented) The memory device according to claim 15, wherein second sector data is transferred to a second storage and first sector data is written into a first storage immediately after the first sector data is transferred to the first storage.

DI 18. (Previously Presented) The memory device according to claim 15, wherein a segment address, a storage address, and a sector address are created for recording data into plural of said nonvolatile storages.

19. (Currently Amended) A method of recording data in a nonvolatile memory having a plurality N of nonvolatile storages, comprising the steps of:

defining at least one cluster of data to be recorded, with each cluster constructed by a plurality K of sectors;

providing an address of the cluster in which data is to be recorded; and

recording data into a storage location at the address designated by the designated address;

wherein,

said plurality of storages are divided into a plurality of segments;

each said segment is distributed and arranged into said plurality of storages; and

each said segment is composed of a plurality of clusters, and a first N clusters of a given segment each having first to Kth entire sectors successively stored in first to Kth memory locations, respectively, of a corresponding one of said N storages, whereby ~~the sectors of said N~~ clusters are continuously arranged across said N storages.

20. (Previously Presented) The method according to claim 19, wherein an access is performed with reference to a logical cluster address/physical cluster address conversion table that is formed for each segment.

DI 21. (Previously Presented) The method according to claim 19, wherein second sector data is transferred to a second storage and first sector data is written into a first storage immediately after the first sector data is transferred to the first storage.

22. (Previously Presented) The method according to claim 19, wherein a segment address, a storage address, and a sector address are created for recording data into plural of said nonvolatile storages.

23. (Previously Presented) The memory system according to claim 7, wherein N is at least three.

24. (Previously Presented) The data processing system according to claim 11, wherein N is at least three.

25. (Previously Presented) The memory device according to claim 15, wherein N is at least three.

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26. (Previously Presented) The method according to claim 19, wherein N is at least three.
